

FEATURES

- Single Output
- Class I Insulation
- Internal EMI Filter
- 3-pin Input Connector
- Power Factor Correction
- Over Voltage Protection (Crowbar Design)
- Output Voltage Available from 3VDC thru 50VDC
- Wide Input Voltage Range: 90~264VAC, 47~63Hz
- Input Surge Current, Over Voltage, and Over Load Protection

DESCRIPTION

The PSSUU100 series of AC/DC switching mode power supplies provides 100 Watts of continuous output power in a compact, Uframe constructed design. This series has single output supplies with a universal input range of 90~264VAC. These units are ideally suited for use in disc drive systems, microprocessor based systems, portable equipment, and many other applications. All models meet FCC Part-15 class B and CISPR-22 class B emission limits. These supplies also comply with UL/cUL (UL 60950-1)⁽³⁾, TUV/Bauart (EN 60950-1), and new CE requirements. All units are 100% burn-in tested.

SPECIFICATIONS: PSSUU100 Series									
	ed on 25°C, Nominal Input Voltage, and Maximum Output Current ur		wise noted						
	erve the right to change specifications based on technological advan								
SPECIFICATION	TEST CONDITIONS	Min	Nom	Max	Unit				
INPUT (V _{in})			T	1					
Operating Voltage Range		90		264	VAC				
Input Frequency		47		63	Hz				
Input Current (Low Line)	Io = Full Load, Vin = 115VAC			2.0	А				
Input Current (High Line)	Io = Full Load, Vin = 230VAC			1.0	A				
Inrush Current (Low Line)	Io = Full Load, 25°C, Cool Start, Vin = 115VAC		12	15	A				
Inrush Current (High Line)	Io = Full Load, 25°C, Cool Start, Vin = 230VAC		26	30	A				
Safety Ground Leakage Current	Io = Full Load, Vin = 240VAC		0.4	0.75	mA				
Start-Up Time	Io = Full Load, Vin = 100VAC	0.3	1	2	S				
OUTPUT (V₀)									
Output Voltage Range			See Rat	ing Chart					
Load Regulation	Vin = 230VAC		3	5	%				
Line Regulation	lo = Full Load		0.5	1	%				
Output Power	Vin = 90 to 264VAC			100	W				
Output Current Range			See Rat	ing Chart					
*Ripple & Noise (peak to peak)	Full Load. Vin = 90VAC		0.5	1	%				
Transient Response Time	Io = Full Load to Half Load. Vin = 100VAC			4	ms				
Hold-Up Time	Io = Full Load. Vin = $110VAC$	16			ms				
PROTECTION		1							
Over Voltage Protection		112		132	%				
Over Current Protection		110		150	%				
GENERAL									
Efficiency	Io = Full Load, Vin = 230VAC	70	80	85	%				
Dielectric Withstanding Voltage	Drimente Casandami	40.40							
For Primary to Secondary	Primary to Secondary	4242			VDC				
Dielectric Withstanding Voltage	Driment to One and	04.04			VDC				
For Primary to Ground	Primary to Ground	2121			VDC				
Isolation Resistance	Test Voltage = 500VDC	50			MΩ				
Power Factor Correction	Io = Full Load, Vin = 90~260VAC	0.95	0.97	1.0					
ENVIRONMENTAL									
Operating Temperature	Derate linearly from 100% Load at 50°C to 50% load at 70°C	0		+70	°C				
Storage Temperature		-40		+85	°C				
Relative Humidity		5		95	%				
Temperature Coefficient	All Outputs	-0.04		+0.04	%/°C				
MTBF			100.00	0 hours					
PHYSICAL		1	,						
Weight		A	Approximately 475 grams						
Dimensions		5(L) x 3.2(W) x 1.19(H) inches							
SAFETY		~(-)							
EMI Requirements for CISPR-22	Vin = 220VAC	В			Class				
EMI Requirements for FCC PART-15	Vin = 110VAC	B			Class				
				1	01000				

*Note: The Ripple & Noise for output voltages under 3.3VDC is 2% max.



7/29/2019



Rev B



MODEL SELECTION TABLE								
Model Number	Preset Voltage	Output Voltage Range	Output Current Range	Total Regulation	Output Power			
PSSUU100-101	3 VDC	3 ~ 5 VDC	18.00 ~ 10.80	5%	54W			
PSSUU100-102	5 VDC	5 ~ 6 VDC	14.00 ~ 11.66	5%	70W			
PSSUU100-103	6 VDC	6 ~ 9 VDC	13.33 ~ 8.88	5%	80W			
PSSUU100-104	9 VDC	9 ~ 11 VDC	11.11 ~ 9.09	5%	100W			
PSSUU100-105	11 VDC	11 ~ 13 VDC	9.09 ~ 7.69	3%	100W			
PSSUU100-106	13 VDC	13 ~ 16 VDC	7.69 ~ 6.25	3%	100W			
PSSUU100-107	16 VDC	16 ~ 21 VDC	6.25 ~ 4.76	3%	100W			
PSSUU100-108	21 VDC	21 ~ 27 VDC	4.76 ~ 3.70	2%	100W			
PSSUU100-109	27 VDC	27 ~ 33 VDC	3.70 ~ 3.03	2%	100W			
PSSUU100-110	33 VDC	33 ~ 40 VDC	3.03 ~ 2.50	2%	100W			
PSSUU100-111	40 VDC	40 ~ 50 VDC	2.50 ~ 2.00	2%	100W			

Rev B

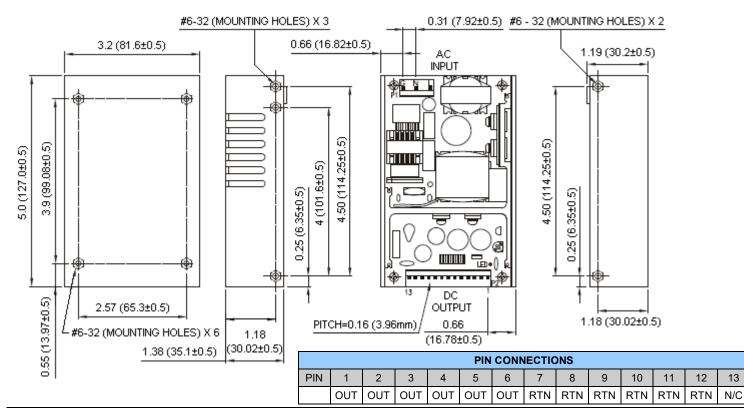
NOTES

1. Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal.

- 2. Output connector mates with Molex housing 09-50-3131 and Molex 2478 series crimp terminal.
- 3. This product is Listed to applicable standards and requirements by UL. *Due to advances in technology, specifications subject to change without notice.

MECHANICAL DRAWING

Unit: inches (mm)



Wall Industries, Inc. • Tel: 603-778-2300 • Toll Free: 888-597-9255 • website: <u>www.wallindustries.com</u> • e-mail: <u>sales@wallindustries.com</u>



COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001: 2015 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact Wall Industries for further information:

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